CIVIL QUALITY CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date:13.01.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency : **Sri. T Chandrasekar Reddy,** Contractor, Bangalore.
Name of Work : Development works for Providing Drinking water facilities at Sharadhamba nagara and Bahubali nagara and surrounding area in ward no 16 Jalahalli, BBMP, Bangalore.

Sample : :Cement (Dalmia 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: : December - 2020
Date of Testing : 11.01.2021 to 13.01.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50%	-

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date : 13.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency : **Sri. T Chandrasekar Reddy,** Contractor, Bangalore.
Name of Work : Development works for Providing Drinking water facilities at Sharadhamba nagara and Bahubali nagara and surrounding area in ward no 16 Jalahalli, BBMP, Bangalore.

Date of Testing : 13.01.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	73	7.30	7.30	92.7	90-100
2.36	105	10.50	17.80	82.2	75-100
1.18	209	20.90	38.70	61.3	55-90
600 Micron	151	15.10	53.80	46.2	35-59
300 Micron	202	20.20	74.00	26.0	8-30
150 Micron	167	16.70	90.70	9.3	0-10

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date : 13.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency : **Sri. T Chandrasekar Reddy,** Contractor, Bangalore.
Name of Work : Development works for Providing Drinking water facilities at Sharadhamba nagara and Bahubali nagara and surrounding area in ward no 16 Jalahalli, BBMP, Bangalore.
Date of Testing : 13.01.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	207	1.38	1.38	98.62	95-100
20	8215	54.77	56.15	43.85	30-70
10	3149	20.99	77.14	22.86	10-35
4.75	2831	18.87	96.01	3.99	0-5

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021 Date : 13.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency : **Sri. T Chandrasekar Reddy,** Contractor, Bangalore.
Name of Work : Development works for Providing Drinking water facilities at Sharadhamba nagara and Bahubali nagara and surrounding area in ward no 16 Jalahalli, BBMP, Bangalore.
Date of Testing : 13.01.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	217	4.3	4.3	95.7	95-100
10	2548	51.0	55.3	44.7	25-55
4.75	1964	39.3	94.6	5.4	0-10

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021

Date : 13.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy,** Contractor, Bangalore.

Name of Work : Development works for Providing Drinking water facilities at Sharadhamba nagara and Bahubali nagara and surrounding area in ward no 16 Jalahalli, BBMP, Bangalore.

Date of Testing : 13.01.2021

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	21	2.10	2.10	97.9	95-100
2.36	24	2.40	4.50	95.5	95-100
1.18	37	3.70	8.20	91.8	90-100
600 Micron	65	6.50	14.70	85.3	80-100
300 Micron	239	23.90	38.60	61.4	20-65
150 Micron	514	51.40	90.00	10.0	0-15

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021

Date : 13.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy,** Contractor, Bangalore.

Name of Work : Development works for Providing Drinking water facilities at Sharadhamba nagara and Bahubali nagara and surrounding area in ward no 16 Jalahalli, BBMP, Bangalore.

Date of Testing : 13.01.2021

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	24	2.40	4.20	95.8	70-100
600 Micron	61	6.10	10.30	89.7	40-100
300 Micron	263	26.30	36.60	63.4	5-70
150 Micron	501	50.10	86.70	13.3	0-15

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021

Date: 27.01.2021

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy,** Contractor, Bangalore.

Name of the work : Development works for Providing Drinking water facilities at Sharadhamba nagara and Bahubali nagara and surrounding area in ward no 16 Jalahalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2021	27.01.2021	8.054	263.5	11.71
2	20.01.2021	27.01.2021	8.097	254.1	11.29
3	20.01.2021	27.01.2021	8.114	282.7	12.56

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021

Date: 17.02.2021

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy,** Contractor, Bangalore.

Name of the work : Development works for Providing Drinking water facilities at Sharadhamba nagara and Bahubali nagara and surrounding area in ward no 16 Jalahalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2021	17.02.2021	8.146	370.8	16.48
2	20.01.2021	17.02.2021	8.113	389.4	17.31
3	20.01.2021	17.02.2021	8.187	394.5	17.53

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021

Date: 27.01.2021

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	: **Sri. T Chandrasekar Reddy,** Contractor, Bangalore.
Name of the work	: Development works for Providing Drinking water facilities at Sharadhamba nagara and Bahubali nagara and surrounding area in ward no 16 Jalahalli, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2021	27.01.2021	8.007	255.2	11.34
2	20.01.2021	27.01.2021	8.057	269.6	11.98
3	20.01.2021	27.01.2021	8.106	279.1	12.40

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Job No.: CQCE/BBMP/TCR/W.No.16/2020-2021

Date: 17.02.2021

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy,** Contractor, Bangalore.

Name of the work : Development works for Providing Drinking water facilities at Sharadhamba nagara and Bahubali nagara and surrounding area in ward no 16 Jalahalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2021	17.02.2021	8.192	388.4	17.26
2	20.01.2021	17.02.2021	8.185	370.2	16.45
3	20.01.2021	17.02.2021	8.161	365.9	16.26

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